

Activity:

The aim of this activity is for children to practise forming expressions. There are three questions to complete. The first two questions allow children to practise the skill, while the third question extends them as they have to problem solve and explain their answer.

Vocabulary:

A **function machine** is a diagram that represents a machine. It takes an input, applies a rule to it, such as addition, subtraction, multiplication or division, and delivers the answer as an output.

The **input** is the starting number that a rule in the machine is applied to.

The **output** is the answer that is delivered after the rule or rules have been applied to the starting number.

Expressions are numbers, symbols and operators (+, −, ×, ÷) that are grouped together to show the value of something. For example: $2y + 6$

Supporting resources:

You can watch a video tutorial about forming expressions on [<< kids.classroomsecrets.co.uk >> Year 6 >> Maths >> Algebra >> Video Tutorials](https://kids.classroomsecrets.co.uk).

You can watch the answer explanation video which takes children through this activity and ways to answer it on [<< https://www.youtube.com/user/ClassroomSecretsLtd/playlists >> Year 6 Playlist >> Forming Expressions Answer Explanation](https://www.youtube.com/user/ClassroomSecretsLtd/playlists).

Other resources:

If your child enjoyed this activity and wants to try more activities linked to this learning, you can sign up for £4.83 per month on classroomsecrets.co.uk/membership.

Check out our daily timetable for Year 6 home learning activities on [<u>kids.classroomsecrets.co.uk</u> >> Home Learning Timetable](https://kids.classroomsecrets.co.uk).

Forming Expressions

1. A. $3x + 3$
B. $5x$
C. $4x$
2. A. $x^3 - 7$
B. $\div 3$
C. $x^2 + 6$
3. Various answers, for example: $4f$; $f - 5$; $f \div 4$